

REPORT ON MACHINERY

No. 11879
22 JUL 1921

Date of writing Report 13 July 1921 When handed in at Local Office

Port of Rotterdam

in Survey held at Alblaudam

Date, First Survey 9 Aug 1920 Last Survey 5 July 1921

on the ship *Paul Perre Schone* JACOB VAN HEEMSKERCK

(Number of Visits) 4

Gross 515.40

Net 63.47

Built at H. J. Amels By whom built J. van der Meer

When built 1920-21

Engines made at Alblaudam By whom made N. V. Alblaudam

when made 1920-21

Boilers made at *ditto* By whom made *ditto*

when made 1921

Registered Horse Power

Owners N. V. *Paul Perre Schone* Port belonging to *The Hague*

Horse Power as per Section 28 162

Is Refrigerating Machinery fitted for cargo purposes *no* Is Electric Light fitted *yes*ENGINES, &c.—Description of Engines *Vertical Marine Triple* No. of Cylinders 3 No. of Cranks 3Diameter of Cylinders $16 \times 27 \frac{1}{2} \times 45 \frac{1}{4}$ Length of Stroke $29 \frac{1}{2}$ Revs. per minute 110 Dia. of Screw shaft as per rule $9 \frac{1}{8}$ as fitted $9 \frac{1}{16}$ Material of screw shaft *sell*Is the screw shaft fitted with a continuous liner the whole length of the stern tube *yes* Is the after end of the liner made water tightthe propeller boss *yes* If the liner is in more than one length are the joints burned *no* If the liner does not fit tightly at the partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *yes* If two

bearings are fitted, is the shaft lapped or protected between the liners Length of stern bush 42"

Dia. of Tunnel shaft as per rule $8 \frac{3}{8}$ as fitted $8 \frac{1}{16}$ Dia. of Crank shaft journals as per rule $8 \frac{3}{8}$ as fitted $9 \frac{1}{8}$ Dia. of Crank pin $9 \frac{1}{8}$ Size of Crank webs $6 \frac{1}{2} \times 4 \frac{1}{2}$ Dia. of thrust shaft underblades $9 \frac{1}{8}$ Dia. of screw $1 \frac{1}{2}$ Pitch of Screw 12 No. of Blades 4 State whether moveable *no* Total surface 40.5 sq ft No. of Feed pumps 2 Dia. of ditto 5" Stroke 15" Can one be overhauled while the other is at work *yes*No. of Bilge pumps 2 Diameter of ditto $3 \frac{1}{2}$ Stroke $14 \frac{3}{4}$ Can one be overhauled while the other is at work *yes*No. of Donkey Engines 4 Sizes of Pumps $6 \times 4 \times 6$ $6 \frac{1}{2} \times 7 \frac{1}{2} \times 7$ No. and size of Suctions connected to both Bilge and Donkey pumpsEngine Room 3×2 In Holds, &c. *Fore Hold 1 x 2 aft hold 1 x 2*No. of Bilge Injections 1 sizes 5" Connected to condenser or to circulating pump *yes* Is a separate Donkey Suction fitted in Engine room & size *yes 2"*Are all the bilge suction pipes fitted with roses *yes* Are the roses in Engine room always accessible *yes* Are the sluices on Engine room bulkheads always accessible *yes*Are all connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *Both*Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *yes* Are the Discharge Pipes above or below the deep water line *above*Are they each fitted with a Discharge Valve always accessible on the plating of the vessel *yes* Are the Blow Off Cocks fitted with a spigot and brass covering plate *yes*What pipes are carried through the bunkers *Steam steam pipes* How are they protected *Small steel tunnel*Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *yes*Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *yes*Is the Screw Shaft Tunnel watertight *yes* Is it fitted with a watertight door *yes* worked from *yes*BOILERS, &c.—(Letter for record 5) Manufacturers of Steel *Hutchinson & Co. Rotterdam*Total Heating Surface of Boilers 2930 sq ft Is Forced Draft fitted *no* No. and Description of Boilers 2 S.E. Horizontal

Working Pressure 199 lb Tested by hydraulic pressure to 200 Date of test 26.3.21 No. of Certificate 734

Can each boiler be worked separately *yes* Area of fire grate in each boiler 43 sq ft No. and Description of Safety Valves toeach boiler 2 *Spring loaded* Area of each valve 4.45 sq in Pressure to which they are adjusted 200 lbs Are they fitted with easing gear *yes*Smallest distance between boilers or uptakes and bunkers or woodwork *yes* Mean dia. of boilers $11.9 \frac{1}{4}$ Length $10 \frac{1}{8}$ Material of shell plates *sell*Thickness $\frac{3}{32}$ Range of tensile strength 28,32 Are the shell plates welded or flanged *no* Descrip. of riveting: cir. seams *D Bar*Long. seams *D.B. hull* Diameter of rivet holes in long. seams $1 \frac{3}{16}$ Pitch of rivets $7 \frac{9}{16}$ Lap of plates or width of butt straps $10 \frac{1}{8}$ Be given as percentages of strength of longitudinal joint rivets $9 \frac{1}{2}$ Working pressure of shell by rules 202 Size of manhole in shell 12×16 Size of compensating ring $33 \frac{1}{2} \times 29 \frac{1}{2} \times \frac{1}{2}$ No. and Description of Furnaces in each boiler 2 *Horizontal* Material *sell* Outside diameter $45 \frac{1}{8}$ Length of plain part top *yes* Thickness of plates crown $1 \frac{1}{32}$ Description of longitudinal joint *Welded* No. of strengthening rings *yes*Working pressure of furnace by the rules 210 Combustion chamber plates: Material *sell* Thickness: Sides $\frac{5}{16}$ Back $\frac{1}{32}$ Top $\frac{5}{16}$ Bottom $\frac{3}{32}$ Pitch of stays to ditto: Sides 7×7 Back $4 \frac{1}{2} \times 6 \frac{1}{2}$ Top $6 \frac{1}{2} \times 9 \frac{1}{2}$ Are stays fitted with nuts or riveted heads *yes* Working pressure by rules 204Material of stays *sell* Area at smallest part 1.55 sq ft Area supported by each stay 400 Working pressure by rules 253 End plates in steam space:Material *sell* Thickness $\frac{3}{32}$ Pitch of stays $15 \frac{1}{4}$ How are stays secured *Don't nuts* Working pressure by rules 213 Material of stays *sell*Area at smallest part 5.94 sq ft Area supported by each stay 2360 Working pressure by rules 261 Material of Front plates at bottom *sell*Thickness $\frac{3}{32}$ Material of Lower back plate *sell* Thickness $\frac{3}{32}$ Greatest pitch of stays $14 \frac{1}{8}$ Working pressure of plate by rules 270Diameter of tubes $3 \frac{1}{4}$ Pitch of tubes $4 \frac{1}{2} \times 4 \frac{1}{2}$ Material of tube plates *sell* Thickness: Front $\frac{3}{32}$ Back $\frac{7}{8}$ Mean pitch of stays $8 \frac{1}{2}$ Pitch across wide water spaces $14 \frac{5}{8} \times 7 \frac{1}{8}$ Working pressures by rules 270 Girders to Chamber tops: Material *sell* Depth andThickness of girder at centre $22 \frac{1}{4} \times 7 \frac{1}{8}$ Length as per rule 26 Distance apart $8 \frac{1}{2} - 9 \frac{1}{2}$ Number and pitch of stays in each $3 \times 6 \frac{1}{16}$ Working pressure by rules 283 Steam dome: description of joint to shell *yes* % of strength of joint *yes*Diameter *yes* Thickness of shell plates *yes* Material *yes* Description of longitudinal joint *yes* Diam. of rivet holes *yes*Pitch of rivets *yes* Working pressure of shell by rules *yes* Crown plates *yes* Thickness *yes* How stayed *yes*SUPERHEATER. Type *yes* Date of Approval of Plan *yes* Tested by Hydraulic Pressure to *yes*Date of Test *yes* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *yes*Diameter of Safety Valve *yes* Pressure to which each is adjusted *yes* Is Easing Gear fitted *yes*

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— *One set of bottom end bolts and nuts, 2 top end bolts and nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of feed and bilge pump valves, one set of piston rings, a quantity of assorted bolts and nuts, iron of various sizes, one set of top and bottom end frames, one propeller, one set of air pump valves, 20 condenser tubes, 10 plain tubes.*

The foregoing is a correct description,

LABBERD & SONS MACHINEFABRIEK

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } *9/0. 14. 22/9. 3-15/12. 1920 13/1-14/1-17/3-25-26/3-5-13/4*
{ During erection on board vessel - - } *26/5-5/6*
Total No. of visits *14*

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders *9/0. 22/9* Slides *9/0. 22/9* Covers *7/0. 22/9* Pistons *22/9* Rods *7/12*
Connecting rods *14-22* Crank shaft *3/2-20* Thrust shaft *3/2-20* Tunnel shafts *7/2-20* Screw shaft *13/1-21* Propeller *13/1-21*
Stern tube *5/4-20* Steam pipes tested *26/5-21* Engine and boiler seatings *15/2-20* Engines holding down bolts *26/5-21*
Completion of pumping arrangements *5/4-21* Boilers fixed *26/5* Engines tried under steam *5/6-21*
Completion of fitting sea connections *15/12-20* Stern tube *5/4-21* Screw shaft and propeller *5/4-21*
Main boiler safety valves adjusted *5/7-21* Thickness of adjusting washers *SB 3/4-7011 15/32-1/2-*
Material of Crank shaft *Scu* Identification Mark on Do. *LL4708* Material of Thrust shaft *Scu* Identification Mark on Do. *LL 868*
Material of Tunnel shafts *Scu* Identification Marks on Do. *11390* Material of Screw shafts *Scu* Identification Marks on Do. *11361*
Material of Steam Pipes *Copper* *K.W. 4-20* Test pressure *400 lbs.*

Is an installation fitted for burning oil fuel *no*

Is the flash point of the oil to be used over 150°F. ☒

Have the requirements of Section 49 of the Rules been complied with ☒

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *S/S. Gelderland Rep 116*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery has been built and fitted in accordance with the approved plans, Society's Rules and Secretary's letter, workmanship good has run satisfactorily during a trial and may in my opinion be recorded in the Society's Register Book with + L.M.C. 7-21.*

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 7.21 CL.

Recd

28/7/21

9/2/21

The amount of Entry Fee ... *£36.00* : When applied for, *19/7 1921*
Special ... *£486.00* :
Donkey Boiler Fee ... *£* : When received, *21/7 1921*
Traveling Expenses (if any) *£45.00* :

Committee's Minute *FRI. 29 JUL. 1921*

Assigned

+ L.M.C. 7.21

E.L.

A. Bijls
Engineer Surveyor to Lloyd's Register of Shipping



© 2020

Lloyd's Register Foundation